

PATENT SPECIFICATION

305,719



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PROVISIONAL SPECIFICATION.

Improvements in or relating to Liquid or Semi-liquid Containers Provided with Non-removable Spouts.

We, JAMES AUSTIN APPLEBY, a subject of the King of England, and C. C. WAKEFIELD & COMPANY, LIMITED, a British company, both of Wakefield House, 30/32, Cheapside, London, E.C. 2, do hereby declare the nature of this invention to be as follows:—

This invention is for improvements in or relating to liquid or semi-liquid containers provided with non-removable spouts, such, for example, as oil tins. The principal object of the invention is to provide improved means for attaching a spout to a container in such a manner that the spout, after having been attached, cannot readily be removed without damaging the container. Thus, the re-filling of the containers by any unauthorised persons can be easily detected.

According to the present invention, there is provided a liquid or semi-liquid container of the kind described comprising in combination a shoulder or equivalent formed in or on, or projecting from, the wall surrounding the filling aperture of the container, a spout having a flange which lies parallel with the said shoulder with or without a gasket between said flange and shoulder, and a separate spout-attaching member that embraces and secures together the flange and shoulder aforesaid.

Conveniently, the spout-attaching member is an inverted cup-shaped member whereof the end wall lies against the flange on the spout and has an aperture through which the spout is passed, and the depending side wall is crimped under the shoulder, or equivalent aforesaid, so as permanently to connect the spout to the container.

The following is a description by way of example of a preferred embodiment of the invention as applied to an oil tin from which its general application will be readily understood. The tin is provided centrally at one end with a neck through which the tin is filled. The upper end of the neck is provided with an outwardly-projecting annular shoulder and the spout is provided with a circular flange which abuts against said shoulder. A cup-shaped member provided with an aperture in its end wall is passed over the spout and the depending wall of said cup-shaped member is crimped beneath the shoulder on the neck of the container, thus securely attaching the spout to the container and preventing any unauthorised refilling of the latter. The upper end of the spout is screwthreaded to receive a closing-cap in the usual manner.

It is to be understood that the invention is not restricted to the precise details described. For instance, the shoulder aforesaid need not be an outwardly-projecting annular flange, but may be constituted by a projection, or projections, on the wall of the container surrounding the filling aperture, or it may be a notch, or notches, provided in the said wall and into which the depending wall of the cup-shaped spout-attaching member can be depressed to hold the said member in position. Moreover, the said depending wall need not be continuous.

Dated this 11th day of November, 1927.
BOULT, WADE & TENNANT,
111 & 112, Hatton Garden, London,
E.C. 1,
Chartered Patent Agents.

COMPLETE SPECIFICATION.

Improvements in or relating to Liquid or Semi-liquid Containers Provided with Non-removable Spouts.

We, JAMES AUSTIN APPLEBY, a COMPANY LIMITED, a British company, 80 British subject, and C. C. WAKEFIELD & [Price 1/-]

side, London, E.C. 2, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained 5 in and by the following statement:—

This invention is for improvements in or relating to liquid or semi-liquid containers provided with non-removable spouts, such, for example, as oil tins. 10 The principal object of the invention is to provide improved means for attaching a spout of a container in such a manner that the spout, after having been attached, cannot readily be removed without 15 damaging the container, for the purpose of exposing any attempted re-filling of the containers by unauthorised persons.

According to the present invention, 20 there is provided a liquid or semi-liquid container of the kind described comprising in combination a shoulder or other abutment on the wall surrounding the filling aperture of the container, a spout 25 formed separately from the container and a separately formed spout-attaching member that embraces and secures together the spout and the shoulder or abutment, with or without a gasket between the 30 spout and the adjacent portion of the wall surrounding the filling aperture.

Preferably the spout has a flange which lies parallel with the said shoulder, and the spout-attaching member embraces and 35 secures together the flange and shoulder aforesaid with or without a gasket between them.

Conveniently, the spout-attaching member is an inverted cup-shaped member whereof the end wall lies against the flange on the spout and has an aperture 40 through which the spout is passed, and the depending side wall is crimped under the shoulder, or equivalent aforesaid, so 45 as permanently to connect the spout to the container.

There will now be described by way of example with reference to the accompanying drawings, a preferred embodiment 50 of the invention as applied to an oil tin from which its general application will be readily understood.

In the drawings:

Figure 1 is a perspective view showing 55 the filling aperture, spout and associated parts of an oil tin in separated relationship.

Figure 2 is a sectional elevation of the parts shown in Figure 1 assembled.

Like references denote like parts throughout.

The tin is provided centrally at one end with a neck 1 through which the tin is filled. The upper end of the neck is 65 provided with an outwardly-projecting

annular shoulder 2 and the spout is provided with a circular flange 3 which abuts against said shoulder. A cup-shaped member 4 provided with an aperture in its end wall is passed over the 70 spout and the depending wall of said cup-shaped member is crimped beneath the shoulder on the neck of the container as shown at 7, thus securely attaching the spout to the container. The upper end of the spout is screwthreaded to receive a closing-cap 5 in the usual manner. A gasket 6 of cork or other suitable material is provided between the shoulder 2 and flange 3 to ensure a liquid-tight joint. 75

It is to be understood that the invention is not restricted to the precise details described. For instance, the shoulder aforesaid need not be an outwardly-projecting annular flange, but may be constituted by a projection, or projections, on the wall of the container surrounding the filling aperture, or it may be a notch, or notches, provided in the said wall and into which the depending wall of the cup-shaped spout-attaching member can be depressed to hold the said member in position. Moreover, the said depending wall need not be continuous. 80

The present invention is concerned only with the specific combination of parts set forth in the appended claims. It is known to provide a sprinkler-top receptacle wherein the perforated cover has a depending flange the edge of which is bent or clinched round underneath a beading on the neck of the receptacle, thus permanently securing the cover, with or without a washer between the 85 sprinkler top and the upper edge of the neck. 90

Having now particularly described and ascertained the nature of our said invention and in what manner the same is to be performed, we declare that what we 100 claim is:—

1. A liquid or semi-liquid container of the kind described comprising in combination a shoulder or other abutment on the wall surrounding the filling aperture 105 of the container, a spout formed separately from the container and a separately formed spout-attaching member that embraces and secures together the spout and the shoulder or abutment, 120 with or without a gasket between the spout and the adjacent portion of the wall surrounding the filling aperture.

2. A liquid or semi-liquid container of the kind described comprising in combination a shoulder or other abutment on the wall surrounding the filling aperture of the container, a spout having a flange which lies parallel with the said shoulder with or without a gasket between said 125 130

- flange and shoulder, and a separately formed spout-attaching member that embraces and secures together the flange and shoulder aforesaid.
- 5 3. A liquid or semi-liquid container as claimed in Claim 1 or Claim 2, wherein the spout-attaching member is an inverted cup-shaped member whereof the end wall lies against the flange on the 10 spout and has an aperture through which the spout is passed, and the depending side wall is crimped under the shoulder or equivalent so as permanently to connect the spout to the container.
4. The liquid or semi-liquid container 15 as described and illustrated in the accompanying drawing.

Dated this 18th day of July, 1928.

BOULT, WADE & TENNANT,
111 & 112, Hatton Garden, London,
E.C. 1,

Chartered Patent Agents.

Redhill: Printed for His Majesty's Stationery Office, by Love & Malcomson, Ltd.—1929

[This Drawing is a reproduction of the Original on a reduced scale]

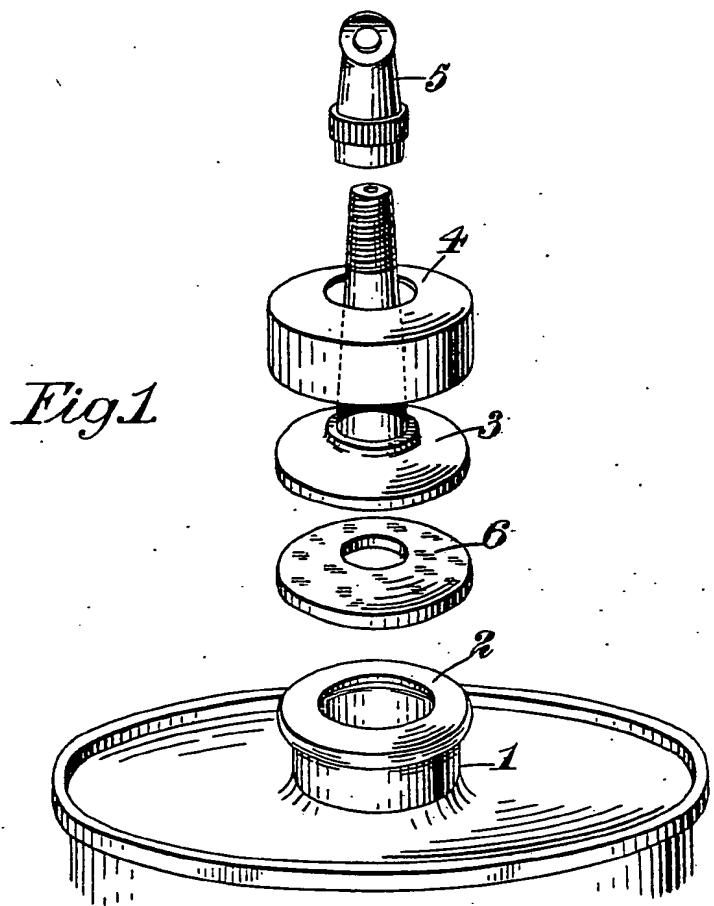


Fig.1

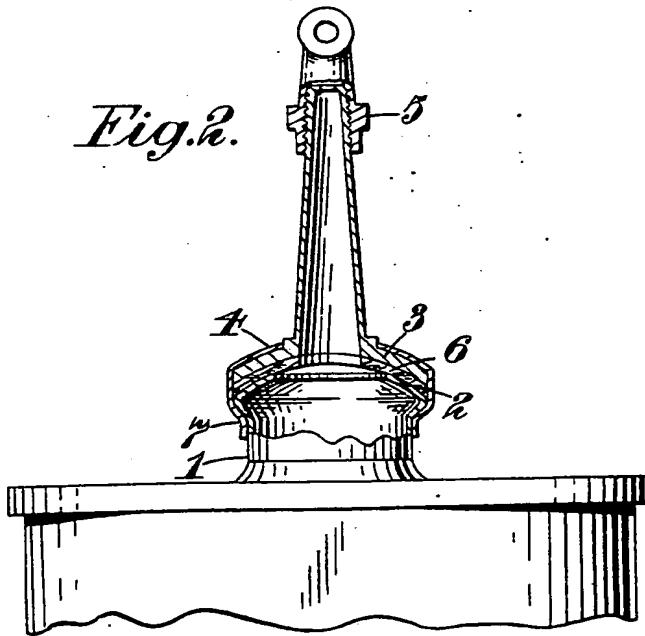


Fig.2.